

Ross Ethier, PhD



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Professor Ethier is a Georgia Research Alliance Eminent Scholar at Georgia Institute of Technology & Emory University School of Medicine. Prior to joining Georgia Tech, he was Head of the Department of Bioengineering at Imperial College, London for 5 years, and Director of the Institute of Biomaterials and Biomedical Engineering at University of Toronto for 2 years before that. He received his Ph.D. from MIT in 1986, his S.M. from MIT in 1983, his M. Math. from Waterloo in 1982 and his B.Sc. from Queen's in 1980.

His research is in the biomechanics of cells and whole organs, with specific emphasis on ocular biomechanics. He works on developing treatments for glaucoma, the second most common cause of blindness, and for SANS, a syndrome affecting astronauts which is a major NASA human health concern. He has published approximately 200 refereed journal articles and two books, has received both Steacie and Humboldt Fellowships, and the Lissner medal. His work has attracted more than 15,500 citations and has an h-index of 73 (Google Scholar, June 2022).

He sits on the editorial boards of four journals, and is a member of the BrightFocus Foundation's Glaucoma Research Scientific Review Committee, the ASME Engineering Sciences Segment council, and the ARVO Glaucoma section Annual Meeting Program Committee. He currently chairs the external Advisory Boards for the Departments of Bioengineering at Imperial College London and University of British Columbia. He is the founding chair of the Bioengineering Society (UK), and has served on the following bodies: World Council of Biomechanics, US National Committee on Biomechanics (executive member), the Beckman-Argyros Award in Vision Research (Executive Committee), Bioengineering Division of the American Society of Mechanical Engineers (Chair), External Advisory Board of the Department of Biomedical Engineering at U Alabama Birmingham, NSERC Banting Fellowship Selection Committee (Chair), and the SB3C Foundation (Chair). He has received the title of Fellow from the following organizations: American Society of Mechanical Engineers; American Institute for Medical and Biological Engineering; International Academy for Medical and Biological Engineering; Association for Research in Vision and Ophthalmology; The City and Guilds Institute; and the Biomedical Engineering Society. He has acted for the Governments of Israel and Singapore, chairing external reviewer committees evaluating Biomedical Engineering programs.